

## CLAIMS:

I claim:

1. A force generator comprising, in combination, a stator being a rigid member, an accompanying gas means for accompanying a gas volume over a fitting surface being a part of the surface of said stator, and a generator frame, said stator being secured to said generator frame under said accompanying gas means, said accompanying gas means having supporters for motion secured to said generator frame, whereby said gas volume sweeping over said fitting surface of said stator during the motion of said accompanying gas means.
2. The force generator of claim 1 wherein said accompanying means being a rotor including a shaft, a shell, and a plurality of dividing walls, said shaft having bearing supporters being secured to said generator frame, said dividing walls extending from said shaft and an upper part of the surface swept by the edges of said dividing walls due to their rotation about the axis of said shaft being covered by said shell, the surface swept by the uncovered part of the edges of said dividing walls due to their rotation about the axis of said shaft forming an open rotary surface of said rotor, said fitting surface of said stator fitting said open rotary surface of said rotor.
3. The force generator of claim 2 wherein said shaft being separate from said rotor and assembled with said rotor by an assembling member secured to said dividing walls.
4. The force generator of claim 3 wherein said assembling member being tubular.
5. The force generator of claim 4 further including a compensating gas means for compensating the amount of gas exhausted out of the space bounded by said rotor and said stator due to the centrifugal force during rotation of said rotor.
6. The force generator of claim 5 wherein said compensating gas means being a fan in a fan duct.
7. The force generator of claim 5 wherein said compensating gas means being a compressor.
8. The force generator of claim 5 wherein said stator being a disk, each of said dividing walls being a rectangular plate, said shell covering the surface swept by the outer and top edges of said dividing walls due to their rotation about the axis of said shaft.

9. The force generator of claim 5 wherein said shell covering the surface swept by the top edges and an upper part of the outer edges of said dividing walls due to their rotation about the axis of said shaft, said stator being a circumferential tube having a disk-bottom.
10. The force generator of claim 5 wherein each of said dividing walls being a plate having a trapezium shape.
11. A mobile object including a force generator according to claim 5 and further comprising a generator chamber, an engine, and a structural frame, said generator frame of said force generator being secured to said structural frame, said generator chamber enclosing said force generator and being filled with a gas, said engine being operatively connected to the shaft of said rotor of said force generator by a mechanical transmission means to drive said rotor.
12. A conventional vehicle including a plurality of force generators according to claim 5 and further comprising a plurality of engines and a generator chamber, said generator chamber being filled with the air, some of said force generators being vertically mounted in said generator chamber, the other said force generators being horizontally mounted in said generator chamber, the shaft of said rotor of each of said force generators being operatively connected to one of said engines by a mechanical transmission means to be driven from said engine.
13. A conventional aircraft including a pair of force generators according to claim 5 and further comprising two engines, said force generators being identical and rotating in opposite directions, said force generators being vertically mounted inside the body of said conventional aircraft for lifting, the shaft of said rotor of each of said force generators being operatively connected to one of said engines by a mechanical transmission means to be driven from said engine.
14. The conventional aircraft of claim 13 further including another pair of force generators according to claim 5 and two other engines, said force generators being identical and rotating in opposite directions, said force generators being horizontally mounted inside the body of said conventional aircraft for propulsion, the shaft of said rotor of each of said force generators being operatively connected to one of said engines by a mechanical transmission means to be driven from said engine.
15. A conventional aircraft with its wings removed including a plurality of pairs of force generators according to claim 5 and further comprising a plurality of engines and a

generator chamber, said force generators being mounted in said generator chamber, said force generators of each said pair being identical and rotating in opposite directions, some of said pairs of the force generators being vertically mounted for lifting, the other said pairs of the force generators being horizontally mounted for propulsion, the shaft of said rotor of each of said force generators being operatively connected to one of said engines by a mechanical transmission means to be driven from said engine.

16. A mobile object including a plurality of pairs of force generators according to claim 5, the force generators of each of said pairs being identical and rotating in opposite directions, said mobile object further comprising:
  - a structural frame;
  - a flying saucer shaped body being secured to said structural frame;
  - a passenger cabin having a floor being attached to said structural frame, a plurality of doors for human gateways, and a plurality of screen windows for human vision;
  - a turning means;
  - a control motor;
  - a generator chamber for mounting said force generators, said turning means, and said control motor, the force generators of one of said pairs being horizontally mounted on said turning means, said turning means being controlled by said control motor and turning said horizontally mounted force generators, the force generators of other said pairs being vertically mounted for lifting;
  - a plurality of engines;
  - an auxiliary power unit;
  - a pump system being powered from said auxiliary power unit for pressurization of said generator chamber and said passenger cabin;
  - a machine cabin for mounting said engines, said auxiliary power unit, and said pump system, the shaft of said rotor of each of said vertically mounted force generators being operatively connected to one of said engines by a mechanical transmission means to be driven from said engine, the shafts of said horizontally mounted force generators being operatively connected to one of said engines by a mechanical transmission means to be driven from said engine, each of said engines being connected to said mechanical means by a means selectively disengaging said engine from said mechanical transmission means;

a plurality of suspension piers allowing said mobile object to stand on the ground;  
 a plurality of wheels allowing said mobile object to run on the ground;  
 a fuel tank being mounted in said machine cabin for providing said engines and said auxiliary power unit with fuel;  
 a control system being mounted in a cockpit for controlling the devices of said mobile object.

17. The mobile object of claim 16 further including photovoltaic panels and a plurality of electrical motors being powered from said photovoltaic panels, each of said electrical motors being connected to one of said mechanical means by a means for selectively disengaging said electrical motor from said mechanical means.

18. A mobile object including two force generators according to claim 5 further comprising:

a structural frame;  
 a body of aerodynamic shape being secured to said structural frame;  
 a pilot cabin having a floor attached to said structural frame, a door for human climbing, and a glass screen for human vision;  
 two engines;  
 a tilting means having an upper plane;  
 a machine cabin for mounting said force generators and said engines, said force generators being identical and vertically mounted for lifting on the upper plane of said tilting means, said force generators rotating in opposite directions, the shaft of said rotor of each of said force generators being operatively connected to one of said engines by a mechanical transmission means;  
 a plurality of suspension piers allowing said mobile object to stand on the ground;  
 a plurality of wheels allowing said mobile object to run on the ground;  
 a fuel tank being mounted in said machine cabin for providing said engines with fuel;  
 a control unit being mounted in the front of said pilot cabin for controlling the devices of said mobile object.

19. The mobile object of claim 18 wherein said tilting means comprising a rectangular frame for securing said force generators, said rectangular frame having a shaft, said shaft having bearing supporters arranged in struts being secured to said structural frame, the ends of one edge of said rectangular frame being operatively jointed with the tops of hydraulic jacks, said hydraulic jacks having a hydraulic circuit and a pump.

being powered from an engine mounted in said machine cabin.

**20.** A mobile object comprising:

a structural frame;

a generator chamber being mounted to said structural frame and filled with a gas;

a shaft having bearing supporters secured to said structural frame inside said generator chamber;

a rotor of blades having an airfoil cross-section and being mounted on said shaft for rotation;

an engine being operatively connected to said shaft by a mechanical transmission means;

a pump system for pressurization of said generator chamber.